

RECOMBINANT PROTEINS CONTAINING SHIGA-LIKE TOXIN AND
VASCULAR ENDOTHELIAL GROWTH FACTOR FRAGMENTS

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ABSTRACT OF THE DISCLOSURE

The present invention is directed to an isolated nucleic acid encoding a fusion protein comprising (1) the A subunit of Shiga-like bacterial toxin, or a truncated or mutated version thereof; and (2) human vascular endothelial growth factor, or a truncated or mutated version thereof; wherein the fusion protein possesses ribosome inactivating activity and ability to bind to cellular VEGF receptors. The present invention is also directed to polypeptides the above combination of toxin and growth factor, as well as expression vectors and transformed cells incorporating the above nucleic acid. The invention is also directed to pharmaceutical compositions and methods for treating patients suffering from diseases relating to angiogenesis.

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